



SEQUENCE LISTING

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Demo, Susan
Jenkins, Yonchu
Rigel Pharmaceuticals, Inc.

<120> MRE11: Modulation of Cellular Proliferation

<130> 021044-001310US

<140> US 10/026,331

<141> 2001-12-21

<150> US 60/309,737

<151> 2001-08-01

<160> 21

<170> PatentIn Ver. 2.1

<210> 1

<211> 2537

<212> DNA

<213> Homo sapiens

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<221> CDS

<222> (171)..(2297)

<223> MRE11

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<213> Homo sapiens

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<400> 2

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Gly Asn Asp Thr Phe Val Thr Leu Asp Glu Ile Leu Arg Leu Ala Gln
          35          40          45
Glu Asn Glu Val Asp Phe Ile Leu Leu Gly Gly Asp Leu Phe His Glu
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Asn Lys Pro Ser Arg Lys Thr Leu His Thr Cys Leu Glu Leu Leu Arg
          65          70          75          80
Lys Tyr Cys Met Gly Asp Arg Pro Val Gln Phe Glu Ile Leu Ser Asp
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Gln Ser Val Asn Phe Gly Phe Ser Lys Phe Pro Trp Val Asn Tyr Gln
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Asp Gly Asn Leu Asn Ile Ser Ile Pro Val Phe Ser Ile His Gly Asn
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His Asp Asp Pro Thr Gly Ala Asp Ala Leu Cys Ala Leu Asp Ile Leu
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Ser Cys Ala Gly Phe Val Asn His Phe Gly Arg Ser Met Ser Val Glu
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Lys Ile Asp Ile Ser Pro Val Leu Leu Gln Lys Gly Ser Thr Lys Ile
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Ala Leu Tyr Gly Leu Gly Ser Ile Pro Asp Glu Arg Leu Tyr Arg Met
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Phe Val Asn Lys Lys Val Thr Met Leu Arg Pro Lys Glu Asp Glu Asn
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Ser Trp Phe Asn Leu Phe Val Ile His Gln Asn Arg Ser Lys His Gly
          210          215          220
Ser Thr Asn Phe Ile Pro Glu Gln Phe Leu Asp Asp Phe Ile Asp Leu
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Val Ile Trp Gly His Glu His Glu Cys Lys Ile Ala Pro Thr Lys Asn
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Leu	Ile	Thr	Lys	Pro	Ser	Glu	Gly	Thr	Thr	Leu	Arg	Val	Glu	Asp	Leu			
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Val	Lys	Gln	Tyr	Phe	Gln	Thr	Ala	Glu	Lys	Asn	Val	Gln	Leu	Ser	Leu			
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Asn	Glu	Glu	Asp	Asp	Glu	Val	Arg	Glu	Ala	Met	Thr	Arg	Ala	Arg	Ala			
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Leu	Arg	Ser	Gln	Ser	Glu	Glu	Ser	Ala	Ser	Ala	Phe	Ser	Ala	Asp	Asp			
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Leu	Met	Ser	Ile	Asp	Leu	Ala	Glu	Gln	Met	Ala	Asn	Asp	Ser	Asp	Asp			
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Gly	Arg	Ala	Asp	Thr	Gly	Leu	Glu	Thr	Ser	Thr	Arg	Ser	Arg	Asn	Ser			
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Ser	Glu	Val	Ile	Glu	Val	Asp	Glu	Ser	Asp	Val	Glu	Glu	Asp	Ile	Phe			
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Lys	Ile	Met	Ser	Gln	Ser	Gln	Val	Ser	Lys	Gly	Val	Asp	Phe	Glu	Ser			
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 <213> Homo sapiens

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 35 40 45
 Leu Gly Gly Asp Leu Phe His Glu Asn Lys Pro Ser Arg Lys Thr Leu
 50 55 60
 His Thr Cys Leu Glu Leu Leu Arg Lys Tyr Cys Met Gly Asp Arg Pro
 65 70 75 80
 Val Gln Phe Glu Ile Leu Ser Asp Gln Ser Val Asn Phe Gly Phe Ser
 85 90 95
 Lys Phe Pro Trp Val Asn Tyr Gln Asp Gly Asn Leu Asn Ile Ser Ile
 100 105 110
 Pro Val Phe Ser Ile His Gly Asn His Asp Asp Pro Thr Gly Ala Asp
 115 120 125
 Ala Leu Cys Ala Leu Asp Ile Leu Ser Cys Ala Gly Phe Val Asn His
 130 135 140
 Phe Gly Arg Ser Met Ser Val Glu Lys Ile Asp Ile Ser Pro Val Leu
 145 150 155 160
 Leu Gln Lys Gly Ser Thr Lys Ile Ala Leu Tyr Gly Leu Gly Ser Ile
 165 170 175
 Pro Asp Glu Arg Leu Tyr Arg Met Phe Val Asn Lys Lys Val Thr Met
 180 185 190
 Leu Arg Pro Lys Glu Asp Glu Asn Ser Trp Phe Asn Leu Phe Val Ile
 195 200 205
 His Gln Asn Arg Ser Lys His Gly Ser Thr Asn Phe Ile Pro Glu Gln
 210 215 220
 Phe Leu Asp Asp Phe Ile Asp Leu Val Ile Trp Gly His Glu His Glu
 225 230 235 240
 Cys Lys Ile Ala Pro Thr Lys Asn Glu Gln Gln Leu Phe Tyr Ile Ser
 245 250 255
 Gln Pro Gly Ser Ser Val Val Thr Ser Leu Ser Pro Gly Glu Ala Val
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 His Lys Ile Pro Leu His Thr Val Arg Gln Phe
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 <213> Saccharomyces cerevisiae

<220>
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His	Glu	Val	Met	Met	Leu	Ala	Lys	Asn	Asn	Asn	Val	Asp	Met	Val	Val
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Gln	Ser	Gly	Asp	Leu	Phe	His	Val	Asn	Lys	Pro	Ser	Lys	Lys	Ser	Leu
	50					55					60				
Tyr	Gln	Val	Leu	Lys	Thr	Leu	Arg	Leu	Cys	Cys	Met	Gly	Asp	Lys	Pro
65					70					75					80
Cys	Glu	Leu	Glu	Leu	Leu	Ser	Asp	Pro	Ser	Gln	Val	Phe	His	Tyr	Asp
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Glu	Phe	Thr	Asn	Val	Asn	Tyr	Glu	Asp	Pro	Asn	Phe	Asn	Ile	Ser	Ile
			100					105					110		
Pro	Val	Phe	Gly	Ile	Ser	Gly	Asn	His	Asp	Asp	Ala	Ser	Gly	Asp	Ser
		115				120						125			
Leu	Leu	Cys	Pro	Met	Asp	Ile	Leu	His	Ala	Thr	Gly	Leu	Ile	Asn	His
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His	Gln	Asn	His	Thr	Gly	His	Thr	Asn	Thr	Ala	Phe	Leu	Pro	Glu	Gln
	210				215						220				
Phe	Leu	Pro	Asp	Phe	Leu	Asp	Met	Val	Ile	Trp	Gly	His	Glu	His	Glu
225				230						235					240
Cys	Ile	Pro	Asn	Leu	Val	His	Asn	Pro	Ile	Lys	Asn	Phe	Asp	Val	Leu
				245					250					255	
Gln	Pro	Gly	Ser	Ser	Val	Ala	Thr	Ser	Leu	Cys	Glu	Ala	Glu	Ala	Gln
			260					265					270		
Pro	Lys	Tyr	Val	Phe	Ile	Leu	Asp	Ile	Lys	Tyr	Gly	Glu	Ala	Pro	Lys
		275					280					285			
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<212> PRT

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<400> 18
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<210> 19
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duplex substrate for MRE11 plate-based assay

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duplex substrate for MRE11 plate-based assay

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or absent

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35 40 45
Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
50 55 60
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65 70 75 80
Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
85 90 95

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